

CIRCULAR SAWING MACHINES.—Mr. Robert W. Parker, of Roxbury, U.S., has invented an improvement in driving circular saws, which, it is asserted, obviates much of the friction attendant upon the ordinary modes of running such saws. By a peculiar arrangement of belts and pulley, Mr. Parker states that he can easily get, by hand power, 2,600 revolutions of a buas saw per minute, cutting through a three-inch plank in that period by the power of one man at the crank.

WALL PAINTINGS ABROAD.—"We learn from Munster, Westphalia," says the *Literary Gazette*, "that some fresco paintings of the thirteenth century have been lately discovered in the church at Seremborn, near that town, and that a curious specimen of painted glass has been found in Legenwinden. In the chief aisle of Patroklius Church, at Soest, Romanic frescoes and statuettes of the twelfth century have been discovered, and measures taken to remove from them the coatings of lime and plaster which the fanaticism or the ignorance of former years has heaped on them. It has also been discovered that the Nicolai Chapel, in Soest Cathedral, is entirely covered with very curious paintings of the twelfth century."

ISTHMS OF SUZ RAILWAY AND CANAL.—From Alexandria, the line proceeds in a south-eastern direction to Damanhour, passing at short distances from Salamoun, Nadir, Wardan, and Kelioub, to Cairo. The proposed route across the desert from Cairo to Suz, branches off from the Alexandria line at Bulah, a few miles north of Cairo, and proceeds nearly parallel with the present Great Hadj route, to Suz on the Red Sea. The route of the proposed ship canal commences in the Mediterranean, at the mouth of the Tineh, the entrance to the ancient Pelusiac Canal, and proceeds in a southern direction to Suz, terminating in vestiges of the ancient canal of Sesostris or Necho. Mr. Wyld, of Charing Cross, has published a map, in which these routes are traced out.

DIVIDING AND MEASURING MACHINE.—A new invention has been described to us as exhibited at the Crown Tavern, near the Obelisk, Blackfriars-road. It is the production of a working-man, named Thomas Best, an engineer and machinist at Greenacre's-moor, near Manchester. The body of the machine is described as consisting of a telescope frame of steel, containing a screw, half-an-inch in diameter, and 7 inches long—a wheel, 14 inches in diameter, being affixed to one end of the screw. The edge of the wheel is divided into 500 parts, and as it requires 20 complete revolutions of the wheel to advance the screw 1 inch, the turning it one division will advance the screw 1-10,000th part of an inch. To the wheel-end of the telescope-frame a steel point is attached, the top of which (level with the upper part of the wheel) is the breadth of two of the wheel divisions. On one side the point is divided into ten, and on the other into six parts, so that the turning of the wheel the distance of one of these very minute divisions will cause the screw to move 1-60,000th or 100,000th part of an inch, as may be required. Allowances for expansion or contraction of the metal of the machine are also provided for. For the purposes of dividing, an addition is made on one side of a rest, for the substance to be graduated, and a tool-box is substituted for the face attached to the main-screw. It is said to be capable of dividing the English standard of lineal measure, its component 1-100,000th part of an inch, but as it is regulated in tenths it is more immediately adapted to the division of foreign standards of lineal measure, and the graduation of scales in accordance therewith.

THE BANKING INSTITUTE.—At the Hall of Commerce Chambers, in Threadneedle-street, the first monthly meeting of this institute was held on the 25th inst., when Mr. Dalton read a paper on the question, "How far is the security of Banker's Locks affected by the recent scientific and ingenious experiments on patent locks?" The meeting was addressed by Mr. Chubb and Mr. Hobbs, who had been invited to attend. The proceedings did not exactly satisfy us, although we cannot say why.

THE MARYLEBONE LITERARY INSTITUTION.—A new lecture theatre has been built for this excellent institution, and will be opened on Monday, 1st December, with a reading from Shakspeare by Miss Glynn. We will give some particulars. Amongst the lectures announced are six by Mr. Thackeray on the Humorous Writers of the last century, for which, by the way, he is to receive the sum of 150l.

NEW BRIDGE FOR WESTMINSTER.—The design for the new bridge is, we understand, by Mr. Hardwick, architect.

TO CORRESPONDENTS.

A Question.—Will one of your correspondents give me the rule by which to ascertain what height an object should be placed at a horizontal distance of 100 yards, and at an altitude of 50 feet, to appear 5 feet high?—*LONGRANGE.*

"S. C. Jun.," "G. G.," "Devises Man," "C. B.," "H. A.," "J. W. P.," "T. H. W.," "C. O." (we hope to give details hereafter: the roof at King's-cross Station has no tie-rods), "A Building Operative" (our correspondent draws a wrong inference: we meant to thank by the quote; then referred to), "G. M. H.," "W. H.," "G. D. D.," "Mr. F.," "Moses Adams" (had better bear the writer out first), "Crito" (we have no desire to quarrel; but we hesitatingly decline the alternative), "W. C. Jun." (the means of destroying ants were discussed in our pages some time ago), "An Inquirer" (the subjects mentioned are treated of throughout *Tas Britania*: it is impossible for us to refer), "G. E. L.," "C. B.," "E. J. P." (we shall be happy to see the notes), "E. R." (may discuss the matter with Mr. Wells: we decline correspondence on the subject), "E. A. F." (will appear), "E. L. G." (thanks), "J. B. D." (the letter appeared to be in our correspondent's handwriting), "A Subscriber from First," "W. H.," "E. W.," "G. E. G.," "R. H."

NOTICE.—All communications respecting advertisements should be addressed to the "Publisher," and not to the "Editor." All other communications should be addressed to the Editor, and not to the Publisher.

Books and Addresses.—We have no time to point out books or find addresses.

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BENNETT'S THERMOMETERS, 65, Chancery-lane. Railway, bath, chamber, garden, and chimney thermometers with every kind of THERMOMETER at this manufactory, where 1,000 may be had for 50s. or may be selected from, at 1s. each, in 5-inch brass and iron; larger sizes to suit every place, purpose, and climate. Barometers at equally moderate prices. BENNETT, Watch, Clock, and Instrument Maker to the Royal Observatory, the Board of Ordnance, the Admiralty, and the Queen.—65, Chancery-lane.

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COMPETITION AND OTHER DRAWINGS.
—Mr. THOMAS B. BOTT, Member of the New Society of Painters in Water Colours, and author of "The Professional Architect's Guide," "The Architect's Handbook," and "The Architect's Dictionary," &c., &c., of London, as it is, offers his services in drawing and engraving drawings, and in the execution of all the work connected with the profession of an Architect. From the long experience he has had in such subjects, he is fully aware of the points essentially necessary to be attended to. Drawings and designs lithographed in a superior manner.—Address: Mr. BOTT, 12, Albany-street, Coventry-park.

DECORATIVE PAINTING.
—Mr. FREDERICK SANG, from the Royal Academy of Painting, DECORATIVE ARTIST IN PENCIL, and in all other branches of Painting: whose works may be seen in the principal public buildings of the metropolis, begs to inform his patrons and Architects in particular, that he has considerably increased his Establishment, and is now enabled to undertake, on the shortest notice, the embellishment of private and public buildings, in any part of the United Kingdom, on the most reasonable terms, and in any of the Classical, Modern, or Modern Styles.—Apply to F. SANG, Decorative Artist, 25, Pall-mall, London.

THE DEPOSITORS OF WORKS OF ART
AND INGENUITY IN THE GREAT EXHIBITION, and others, are respectfully informed that the **ROYAL POLYTECHNIC INSTITUTION**, incorporated in 1824, is CLOSED to the PUBLIC, for the purpose of receiving approved Deposits for sale or otherwise, without expense to the Depositors. Those who wish to embrace this opportunity should send their works before the 1st of December, and they will then be fully particularized in the Catalogue.
The INSTITUTION will be RE-OPENED on the 1st of DECEMBER.
R. L. LONGBOTTOM, Secretary.

COLOSSEUM.—The original and extraordinary PANORAMA OF LONDON, painted by H. P. Parris, will be EXHIBITED, with the other splendid features of this Establishment, on every evening, except Sunday, from 7 till 10. The grand PANORAMA OF PARIS BY NIGHT, by L. J. M. and Co., every evening (except Sunday), from 7 till 10. The most admired music from two till half-past four, and during the evening, when the conservatories, &c., &c., are brilliantly illuminated. Admission, day or evening, 1s.; children and scholars, half-price. CYCLOPEDIA, Albany-street, admission 1s. A grand moving Panorama of Lisbon and the Earthquake in 1755, is exhibited daily at Three, and every evening (except Sunday), at Eight o'clock. Illustrated by appropriate music on the new grand Apollonion. Children and scholars half-price.

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A TRADESMAN has a SON, a respectable youth, fourteen and a half years of age, who has a good idea of planning, drawing, and land surveying, he wishes to place in a respectable office as an OUT-DOOR APPRENTICE. For any length of time he may be agreed upon. No premium will be given, as the lad's services may be made equivalent.—Address, A. B. M. Spalding's, Stationer, 22, High-street, Notting-hill.

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WANTED, in a large Building Firm in Town, an EXPERIENCED MAN, competent to take out quantities, measure and estimate, and keep prime-costs of a estate.—Address, post-paid, to A. B. Mason's-hall, Beating-hall-street.

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WANTED, a SITUATION as CLERK of WORKS, or to superintend Building Works for Contractors. The Applicant is respectable and well-experienced in the building business. Can give good references.—Address, H. Y. T. Office of "The Builder," 1, York-street, Covent-garden.

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A YOUNG MAN, respectfully connected, having completed his articles with an excellent architect, and of an ESTABLISHED DRAUGHTSMAN and General Assistant. A small salary would not be objected to, as his duty is to improve himself. Most respectable references can be given. The country not objected to.—Address, C. A. 4, Church-street, Queen-street, Finsbury.

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A THOROUGHLY Qualified Assistant, desires an ENGAGEMENT in Town or Country. Terms moderate.—Address, Z. F. A. care of Mr. Smith, Carlton-chambers, 13, Regent-street.

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